

Trypanosoma cruzi, Strain VL2067, Clone A8 (+lacZ)

Catalog No. NR-18962

Product Description: *Trypanosoma cruzi* (*T. cruzi*), strain VL2067, clone A8 (+lacZ) is a transgenic clone derived from the pathogenic VL2067 strain.

Lot¹: 59547287

Manufacturing Date: 13DEC2010

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of 18S rRNA gene (~ 1330 bp)	Consistent with <i>T. cruzi</i>	Consistent with <i>T. cruzi</i> ²
Phenotypic Analysis³ NR-18962 β-Galactosidase activity Negative control (ATCC [®] CCL-163™)	Positive (red) Negative (yellow)	Positive (red) Negative (yellow)
Viable Cell Count by Hemacytometry (pre-freeze)⁴	> 10 ⁶ cells/mL	1.8 x 10 ⁷ cells/mL
Viability (post-freeze)⁵	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Brain heart infusion, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination DNA Detection by PCR	None detected	None detected

¹NR-18962 was produced by cultivation of the deposited material BALB/3T3 clone A31 mouse embryonic fibroblasts (ATCC[®] CCL-163™) with cell cultivation medium for parasites (ATCC medium 2222; adjusted to contain 10% heat-inactivated fetal bovine serum). The culture was propagated in 95% air, 5% CO₂ for 11 days at 37°C, until emergence of trypomastigotes from host cells was observed.

²Also consistent with other *Trypanosoma* species

³Parasites (~ 10⁷) were lysed in 0.1% Triton X-100 and PBS and 100 μM chlorophenol red-β-D-galactoside (CPRG) and incubated for 20 min. at 37°C [Buckner, F. S., et al. "Efficient Technique for Screening Drugs for Activity against *Trypanosoma cruzi* using Parasites Expressing β-Galactosidase." *Antimicrob. Agents Chemother.* 40 (1996): 2592-2597. PubMed: 8913471].

⁴Only trypomastigote-stage parasites were counted

⁵Viable cells and signs of infection were seen after 6 days under cultivation conditions at 37°C

⁶Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 10 NOV 2011

Signature: 

Title: Technical Manager, BEI Authentication or designee

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